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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,978	03/04/2002	Federico Pio	856063.616D1	1770
	7590 12/18/2002			
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE SUITE 6300 SEATTLE, WA 98104-7092			EXAMINER	
			WILLE, DOUGLAS A	
			ADTIDUT	
			ART UNIT	PAPER NUMBER
			2814	
DATE MAILED: 12/18/2002				

Please find below and/or attached an Office communication concerning this application or proceeding.

			$\mathcal{N}_{\mathcal{L}}$
		Application No.	Applicant(s)
		10/090,978	PIO ET AL.
	Office Action Summary	Examiner	Art Unit
		Douglas A Wille	2814
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with th	ne correspondence address
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl population of the period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply b ly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS to a cause the application to become ABANDO	days will be considered timely. from the mailing date of this communication.
1)🛛	Responsive to communication(s) filed on 04	<u>March 2002</u> .	
2a) <u></u> □	This action is FINAL. 2b)⊠ Th	nis action is non-final.	
3)☐ Disposit	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	ance except for formal matters <i>Ex parte Quayle</i> , 1935 C.D. 1	, prosecution as to the merits is 1, 453 O.G. 213.
4) 🖾	Claim(s) 1-12 is/are pending in the application	1.	
	4a) Of the above claim(s) is/are withdra	wn from consideration.	
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) 1-12 is/are rejected.		
7)	Claim(s) is/are objected to.		
8) 🔲	Claim(s) are subject to restriction and/o	r election requirement.	
Applicati	on Papers		
9) 🔲 🤈	The specification is objected to by the Examine	r.	
10)🛛	The drawing(s) filed on <u>04 March 2002</u> is/are: a	a)⊠ accepted or b)⊡ objected to	by the Examiner.
	Applicant may not request that any objection to the		, , ,
11) 🗌 .	The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disap	proved by the Examiner.
	If approved, corrected drawings are required in re	oly to this Office action.	
12) 🗌 .	The oath or declaration is objected to by the Ex	aminer.	
Priority u	ınder 35 U.S.C. §§ 119 and 120		
13)🛛	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119	9(a)-(d) or (f).
a)[⊠ All b) ☐ Some * c) ☐ None of:		
	1. Certified copies of the priority documents	s have been received.	
	2. Certified copies of the priority documents	s have been received in Applic	ation No
	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	•
	cknowledgment is made of a claim for domesti		
	☐ The translation of the foreign language pro acknowledgment is made of a claim for domesti		
Attachment	(s) '		
2) Notice 3) Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)
S. Patent and Tr TO-326 (Rev		tion Summary	Part of Paper No. 3

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claims 1 5 and 9 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki.
- 3. With respect to claims 1 and 9, Yamazaki shows (see cover Figure and column 4, line 50 et seq.) a FET with a source region 101, a drain region 103 a channel region 102 and the channel region has a width determined by the implant regions 105, 106.
- 4. With respect to claims 2 and 10, the variable doping profile is determined by the regions 105, 106 which are implanted (column 6, line 17).
- 5. With respect to claims 3 and 11, the regions 105, 106 determine the effective width of the channel since they are pinning regions (column 4, line 65).

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6. With respect to claim 4, the doping profile has a minimum at the center of the channel since the regions 105, 106 are formed by implanting further dopants in the already doped substrate.

7. With respect to claims 5 and 12, there is continuity of the doping in the regions 102, 105, 106.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 6 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki in view of Iwasaki.
- 10. Yamazaki shows a method of adjusting the threshold voltage (column 7, line 27) and Iwasaki shows (see cover Figure page 3 et seq.) with a pair of transistors. It would have been obvious to use the Yamazaki method of adjusting the threshold of the Iwasaki device to optimize them and to use different adjustments since the FETs are different.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A Wille whose telephone number is (703) 308-4949. The examiner can normally be reached on M-F (6:15-3:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Douglas A. Wille Patent Examiner

December 11, 2002